IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

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Serial No.: To be assigned	)
Filed: Herewith	) I hereby certify that this paper (or fee) is
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Based on U.S. Provisional Patent	) TO ADDRESSEE" service under 37 C.F.R.
Application Serial No. 60/262,476 filed	) §1.10 on the date indicated below and is
January 17, 2001	) addressed to the Commissioner for Patents,
	) Washington, D.C. 20231, on this date,
	)
For: VEGFR-3 INHIBITOR	) January 15, 2002
MATERIALS AND METHODS	)
	)
Group: To be assigned	) Richard Zimmermann
Examiner: To be assigned	)

STATEMENT PURSUANT TO 37 C.F.R. §§1.821

Commissioner for Patents
Washington, DC 20231

Sirs:

I hereby state that the contents of the paper and computer readable copies of the Sequence Listing, submitted herewith and in accordance with 37 C.F.R. §§1.821 are the same and include no new matter.

Respectfully submitted,

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SEQUENCE LISTING

<110> Alitalo, Kari

Koivunen, Erkki

Kubo, Hajime

<120> VEGFR-3 INHIBITOR MATERIALS AND METHODS

<130> 28967/37084A

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<170> PatentIn version 3.0

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            20   25   30

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        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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            20   25   30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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            20   25   30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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            20   25   30

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        35   40   45

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            20   25   30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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            20   25   30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

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            20   25   30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
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            20                  25                  30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
        35                      40                  45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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            20   25   30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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                20   25   30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

15

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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            20   25   30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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            20                  25                  30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
        35                  40                  45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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            20   25   30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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            20   25   30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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            20                  25                  30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
        35              40                  45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50                  55                  60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65                  70                  75                  80

Xaa Xaa Cys
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<210> 19

<211> 84

<212> PRT

<213> VEGF homology domain

<220>

25

<221>   SITE

<222>   (2)..(24)

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<220>

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<222>   (26)..(26)

<223>   X is proline, serine or arginine

<220>

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<223>   X is any amino acid

<220>

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<222>   (34)..(34)

<223>   X is glycine, serine, threonine or alanine

<220>

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<222>   (38)..(43)

<223>   X is amino acid

<220>

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<222>   (45)..(83)

<223>   X is any amino acid

<400>   19

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa Arg
            20   25   30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65   70   75   80

Xaa Xaa Xaa Cys

<210> 20

<211> 85

<212> PRT

<213> VEGF homology domain

<220>

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<220>

<221> SITE

<222> (26)..(26)

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<220>

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<222> (29)..(31)

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27

<220>

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<222> (38)..(43)

<223> X is any amino acid

<220>

<221> SITE

<222> (45)..(84)

<223> X is any amino acid

<400> 20

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Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1                   5                   10                  15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa Arg
                20                  25                  30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
            35                  40                  45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50                  55                  60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65                  70                  75                      80

Xaa Xaa Xaa Xaa Cys
                85
```

<210> 21

<211> 86

<212> PRT

<213> VEGF homology domain

<220>

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<222> (26)..(26)

<223> X is proline, serine or arginine

<220>

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<222> (29)..(31)

<223> X is any amino acid

<220>

<221> SITE

<222> (34)..(34)

<223> X is glycine, serine, threonine or alanine

<220>

<221> SITE

<222> (38)..(43)

<223> X is any amino acid

<220>

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<222> (45)..(85)

<223> X is any amino acid

<400> 21

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa Arg
            20   25   30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

29

```
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65                  70                  75                  80

Xaa Xaa Xaa Xaa Xaa Cys
                85
```

<210> 22

<211> 78

<212> PRT

<213> VEGF homology domain

<220>

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<222> (27)..(27)

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<222> (30)..(32)

<223> X is any amino acid

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<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

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<223> X is any amino acid

30

<220>

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<222>   (46)..(77)

<223>   X is any amino acid

<400>   22

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa
                20   25   30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
65   70   75

<210>   23

<211>   79

<212>   PRT

<213>   VEGF homology domain

<220>

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<223>   X is any amino acid

<220>

<221>   SITE

<222>   (27)..(27)

<223>   X is proline, serine or arginine

<220>

<221>   SITE

31

<222> (30)..(32)

<223> X is any amino acid

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<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

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<222> (39)..(44)

<223> X is any amino acid

<220>

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<222> (46)..(78)

<223> X is any amino acid

<400> 23

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa
            20   25   30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
65   70   75

<210> 24

<211> 80

<212> PRT

<213> VEGF homology domain

32

<220>

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<222> (30)..(32)

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<400> 24

33

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Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1               5                   10                  15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa
            20                  25                  30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
        35              40                  45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50                  55                  60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
65                  70                  75                  80
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<210> 25

<211> 81

<212> PRT

<213> VEGF homology domain

<220>

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<222> (27)..(27)

<223> X is proline, serine or arginine

<220>

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<222> (30)..(32)

<223> X is any amino acid

<220>

<221> SITE

<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

34

<220>

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<222> (39)..(44)

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<220>

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<222> (46)..(80)

<223> X is any amino acid

<400> 25

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa
                20   25   30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
            35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65   70   75   80

Cys

<210> 26

<211> 82

<212> PRT

<213> VEGF homology domain

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<220>

35

<221> SITE

<222> (27)..(27)

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<220>

<221> SITE

<222> (30)..(32)

<223> X is any amino acid

<220>

<221> SITE

<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

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<222> (39)..(44)

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<220>

<221> SITE

<222> (46)..(81)

<223> X is any amino acid

<400> 26

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa
            20   25   30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

36

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65   70   75   80

Xaa Cys

<210> 27

<211> 83

<212> PRT

<213> VEGF homology domain

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<221> SITE

<222> (30)..(32)

<223> X is any amino acid

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<222> (35)..(35)

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<220>

<221> SITE

<222> (39)..(44)

<223> X is any amino acid

<220>

<221> SITE

<222> (46)..(82)

<223> X is any amino acid

<400> 27

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa
            20   25   30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65   70   75   80

Xaa Xaa Cys

<210> 28

<211> 84

<212> PRT

<213> VEGF homology domain

<220>

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<221> SITE

<222> (27)..(27)

<223> X is proline, serine or arginine

<220>

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<223>   X is any amino acid

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<221>   SITE

<222>   (35)..(35)

<223>   X is glycine, serine, threonine or alanine

<220>

<221>   SITE

<222>   (39)..(44)

<223>   X is any amino acid

<220>

<221>   SITE

<222>   (46)..(83)

<223>   X is any amino acid

<400>   28

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa
                20   25   30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65   70   75   80

Xaa Xaa Xaa Cys

<210>   29

<211>   85

<212>   PRT

<213> VEGF homology domain

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<221> SITE

<222> (27)..(27)

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<220>

<221> SITE

<222> (30)..(32)

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<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

<221> SITE

<222> (39)..(44)

<223> X is any amino acid

<220>

<221> SITE

<222> (46)..(84)

<223> X is any amino acid

40

<400> 29

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa
                20   25   30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65   70   75   80

Xaa Xaa Xaa Xaa Cys
                85

<210> 30

<211> 86

<212> PRT

<213> VEGF homology domain

<220>

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<220>

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<223> X is proline, serine or arginine

<220>

<221> SITE

<222> (30)..(32)

<223> X is any amino acid

<220>

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<221> SITE

<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

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<222> (39)..(44)

<223> X is any amino acid

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<222> (46)..(85)

<223> X is any amino acid

<400> 30

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa
            20   25   30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50   55   60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65   70   75   80

Xaa Xaa Xaa Xaa Xaa Cys
                85

<210> 31

<211> 87

<212> PRT

<213> VEGF homology domain

<220>

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<222> (2)..(25)

<223> X is any amino acid

42

<220>

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<222> (27)..(27)

<223> X is proline, serine or arginine

<220>

<221> SITE

<222> (30)..(32)

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<221> SITE

<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

<221> SITE

<222> (39)..(44)

<223> X is any amino acid

<220>

<221> SITE

<222> (46)..(86)

<223> X is any amino acid

<400> 31

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa
            20   25   30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
        35   40   45

```
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50                      55                      60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65                      70                      75                      80

Xaa Xaa Xaa Xaa Xaa Xaa Cys
                    85
```

<210> 32

<211> 8

<212> PRT

<213> isolated polypeptide

<220>

<221> SITE

<222> (1)..(1)

<223> X is glycine or a conservative substitution

<220>

<221> SITE

<222> (2)..(2)

<223> X is tyrosine or a conservative substitution

<220>

<221> SITE

<222> (3)..(3)

<223> X is tryptophan or a conservative substitution

<220>

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<222> (4)..(4)

<223> X is leucine or a conservative substitution

<220>

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<222> (5)..(5)

<223> X is threonine or a conservative substitution

<220>

<221> SITE

<222> (6)..(6)

<223> X is isoleucine or a conservative substitution

<220>

<221> SITE

<222> (7)..(7)

<223> X is tryptophan or a conservative substitution

<220>

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<222> (8)..(8)

<223> X is glycine or a conservative substitution

<400> 32

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5

<210> 33

<211> 10

<212> PRT

<213> isolated peptide

<220>

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<222> (2)..(2)

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<220>

45

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<221>  SITE

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<223>  X   is tryptophan or a conservative substitution


<220>

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46

<223>   X   is glycine or a conservative substitution

<400>   33

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
1   5   10

<210>   34

<211>   10

<212>   PRT

<213>   isolated peptide

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<222>   (1)..(1)

<223>   X   is any amino acid

<220>

<221>   SITE

<222>   (10)..(10)

<223>   X is any amino acid

<400>   34

Xaa Gly Tyr Trp Leu Thr Ile Trp Gly Xaa
1   5   10

<210>   35

<211>   10

<212>   PRT

<213>   isolated peptide

<400>   35

Cys Gly Tyr Trp Leu Thr Ile Trp Gly Cys
1   5   10

<210>   36

<211>   9

<212> PRT

<213> peptide

<400> 36

Ser Gly Tyr Trp Trp Asp Thr Trp Phe
1   5

<210> 37

<211> 9

<212> PRT

<213> peptide

<400> 37

Ser Cys Tyr Trp Arg Asp Thr Trp Phe
1   5

<210> 38

<211> 9

<212> PRT

<213> peptide

<400> 38

Lys Val Gly Trp Ser Ser Pro Asp Trp
1   5

<210> 39

<211> 9

<212> PRT

<213> peptide

<400> 39

Phe Val Gly Trp Thr Lys Val Leu Gly
1   5

<210> 40

<211> 9

<212> PRT

<213> peptide

48

<400> 40

Tyr Ser Ser Ser Met Arg Trp Arg His
1   5

<210>   41

<211>   9

<212>   PRT

<213>   peptide

<400>   41

Arg Trp Arg Gly Asn Ala Tyr Pro Gly
1   5

<210>   42

<211>   9

<212>   PRT

<213>   peptide

<400>   42

Ser Ala Val Phe Arg Gly Arg Trp Leu
1   5

<210>   43

<211>   9

<212>   PRT

<213>   peptide

<400>   43

Trp Phe Ser Ala Ser Leu Arg Phe Arg
1   5

<210>   44

<211>   8

<212>   PRT

<213>   peptide

<400>   44

49

Trp Gln Leu Gly Arg Asn Trp Ile
1   5

<210>   45

<211>   8

<212>   PRT

<213>   peptide

<400>   45

Val Glu Val Gln Ile Thr Gln Glu
1   5

<210>   46

<211>   8

<212>   PRT

<213>   peptide

<400>   46

Ala Gly Lys Ala Ser Ser Leu Trp
1   5

<210>   47

<211>   8

<212>   PRT

<213>   peptide

<400>   47

Arg Ala Leu Asp Ser Ala Leu Ala
1   5

<210>   48

<211>   7

<212>   PRT

<213>   peptide

<400>   48

Tyr Gly Phe Glu Ala Ala Trp
1   5

<210> 49

<211> 7

<212> PRT

<213> peptide

<400> 49

Tyr Gly Phe Leu Trp Gly Met
1   5

<210> 50

<211> 7

<212> PRT

<213> peptide

<400> 50

Ser Arg Trp Arg Ile Leu Gly
1   5

<210> 51

<211> 7

<212> PRT

<213> peptide

<400> 51

His Lys Trp Gln Lys Arg Gln
1   5

<210> 52

<211> 7

<212> PRT

<213> peptide

<400> 52

Met Asp Pro Trp Gly Gly Trp
1   5

<210> 53

<211> 7

<212>   PRT

<213>   peptide

<400>   53

Arg Lys Val Trp Asp Ile Arg
1   5

<210>   54

<211>   6

<212>   PRT

<213>   peptide

<400>   54

Val Trp Asp His Gly Val
1   5

<210>   55

<211>   10

<212>   PRT

<213>   peptide

<400>   55

Cys Trp Gln Leu Gly Arg Asn Trp Ile Cys
1   5   10

<210>   56

<211>   10

<212>   PRT

<213>   peptide

<400>   56

Cys Val Glu Val Gln Ile Thr Gln Glu Cys
1   5   10

<210>   57

<211>   10

<212>   PRT

<213>   peptide

<400> 57

Cys Ala Gly Lys Ala Ser Ser Leu Trp Cys
1   5   10

<210> 58

<211> 10

<212> PRT

<213> peptide

<400> 58

Cys Arg Ala Leu Asp Ser Ala Leu Ala Cys
1   5   10

<210> 59

<211> 9

<212> PRT

<213> peptide

<400> 59

Cys Tyr Gly Phe Glu Ala Ala Trp Cys
1   5

<210> 60

<211> 9

<212> PRT

<213> peptide

<400> 60

Cys Tyr Gly Phe Leu Trp Gly Met Cys
1   5

<210> 61

<211> 9

<212> PRT

<213> peptide

<400> 61

53

Cys Ser Arg Trp Arg Ile Leu Gly Cys
1   5

<210>   62

<211>   9

<212>   PRT

<213>   peptide

<400>   62

Cys His Lys Trp Gln Lys Arg Gln Cys
1   5

<210>   63

<211>   9

<212>   PRT

<213>   peptide

<400>   63

Cys Met Asp Pro Trp Gly Gly Trp Cys
1   5

<210>   64

<211>   9

<212>   PRT

<213>   peptide

<400>   64

Cys Arg Lys Val Trp Asp Ile Arg Cys
1   5

<210>   65

<211>   8

<212>   PRT

<213>   peptide

<400>   65

Cys Val Trp Asp His Gly Val Cys
1   5

<210> 66

<211> 13

<212> PRT

<213> peptide

<400> 66

Cys Gly Gln Met Cys Thr Val Trp Cys Ser Ser Gly Cys
1   5   10

<210> 67

<211> 7

<212> PRT

<213> peptide

<220>

<221> SITE

<222> (4)..(6)

<223> X at position 4-6 is any amino acid

<400> 67

Gly Tyr Trp Xaa Xaa Xaa Trp
1   5

<210> 68

<211> 8

<212> PRT

<213> peptide

<220>

<221> SITE

<222> (4)..(6)

<223> X is any amino acid

<220>

<221> SITE

<222> (8)..(8)

<223> X is any amino acid

<400> 68

Gly Tyr Trp Xaa Xaa Xaa Trp Xaa
1   5

<210> 69

<211> 13

<212> PRT

<213> peptide

<400> 69

Cys Gly Gln Met Cys Thr Val Trp Cys Ser Ser Gly Ser
1   5   10

<210> 70

<211> 9

<212> PRT

<213> peptide

<220>

<221> SITE

<222> (1)..(9)

<223> X is any amino acid

<400> 70

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5

<210> 71

<211> 13

<212> PRT

<213> peptide

<220>

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<222> (2)..(4)

<223> X is any amino acid

<220>

<221> SITE

<222> (6)..(8)

<223> X is any amino acid

<220>

<221> SITE

<222> (10)..(12)

<223> X is any amino acid

<400> 71

Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys
1   5   10

<210> 72

<211> 9

<212> PRT

<213> peptide

<220>

<221> SITE

<222> (2)..(8)

<223> X is any amino acid

<400> 72

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
1   5

<210> 73

<211> 10

<212> PRT

<213> peptide library

<220>

<221> SITE

<222> (5)..(7)

<223> X is any amino acid

<220>

<221> SITE

<222> (9)..(9)

<223> X is any amino acid

<400> 73

Cys Gly Tyr Trp Xaa Xaa Xaa Trp Xaa Cys
1   5   10

<210> 74

<211> 39

<212> DNA

<213> primer

<220>

<221> misc_feature

<222> (19)..(20)

<223> N= equimolar mixture of A, G, C and T

<220>

<221> misc_feature

<222> (21)..(21)

<223> N= equimolar mixture of G and T

<400> 74
cactcggccg acggggctnn ngggccgct ggggccgaa   39

<210> 75

<211> 18

<212> DNA

<213> synthetic primer

<400> 75
ttcggcccca gcggcccc   18

<210> 76

<211> 33

<212> DNA

<213> synthetic primer

<400> 76
cctgggatcc ctggtgagtg gctactccat gac   33

<210> 77

<211> 32

<212> DNA

<213> synthetic primer

<400> 77
gatgaagaga tcttcatgca caatgacctc gg   32

<210> 78

<211> 29

<212> DNA

<213> synthetic primer

<400> 78
aggctcgagg atcctcggcc gacggggct   29

<210> 79

<211> 27

<212> DNA

<213> synthetic primer

59

<400> 79
aggtctagaa ttcgccccag cggcccc

<210> 80

<211> 19

<212> PRT

<213> peptide

<220>

<221> SITE

<222> (2)..(8)

<223> X is any amino acid

<220>

<221> SITE

<222> (11)..(18)

<223> X is any amino acid

<400> 80

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Xaa Xaa Cys